



3rd Scientific Workshop
THE HAEMATOLOGICAL TUMOUR MICROENVIRONMENT AND
ITS THERAPEUTIC TARGETING

February 24-26, 2019

The Francis Crick Institute – London, United Kingdom

Chairs: Michael Andreeff, Dominique Bonnet, Daniela S. Krause, Simon Méndez-Ferrer

Sunday, February 24

15:30 Welcome

SESSION I THE NORMAL HSC NICHES IN DEVELOPMENT, ADULTHOOD AND AGEING

Chairs: Marieke Essers and Laura Calvi

15:45-16:10 **Keynote Lecture** Shahin Rafii (New York)

16:10-16:15 *Discussion*

16:15-16:35 Regulatory potential of vascular niches in acute myeloid leukaemia Anjali Kusumbe (Oxford)

16:35-16:40 *Discussion*

16:40-17:00 The HSC niche in aging Hartmut Geiger (Ulm)

17:00-17:05 *Discussion*

17:05-17:15 *Brief Oral Communication*

17:15-17:20 *Discussion*

17:20-17:30 *Brief Oral Communication*

17:30-17:35 *Discussion*

17:35-18:05 Coffee Break

SESSION II METABOLISM IN THE TUMOUR MICROENVIRONMENT

Chairs: Simon Méndez-Ferrer and Nina Cabezas-Wallscheid

18:05-18:25 Subversion of systemic glucose metabolism as a mechanism to support the growth of leukaemia cells Haobin Ye (Aurora)

18:25-18:30 *Discussion*

18:30-18:50 Mitochondrial trafficking in the tumour microenvironment Stuart A. Rushworth (Norwich)

18:50-18:55 *Discussion*

18:55-19:15 Fatty acid metabolism and bone marrow adipocytes in AML Yoko Tabe (Tokyo)

19:15-19:20 *Discussion*

19:20-19:30 *Brief Oral Communication*

19:30-19:35 *Discussion*

19:35-19:45 *Brief Oral Communication*

19:45-19:50 *Discussion*

19:50 TUTORED POSTER WALKS AND GET-TOGETHER RECEPTION

Monday, February 25

07:30-08:30 3 Meet the Experts sessions:

- The microenvironment in myeloid malignancies Michael Andreeff (Houston), Simon Méndez-Ferrer (Cambridge)
- The microenvironment in lymphoid neoplasms Irene Ghobrial (Boston), Michael Hallek (Cologne)
- The HSC niches from development to ageing Hartmut Geiger (Ulm), Shahin Rafii (New York)

SESSION III INFLAMMATION AND CELL CYCLE PART 1

Chairs: Iannis Aifantis and Elisa Laurenti

08:30-08:50 Impact of aged marrow macrophage on haematopoietic stem cells and their niche Laura Calvi (Rochester)

08:50-08:55 *Discussion*

08:55-09:15 HSCs and their BM niche under inflammatory stress Marieke Essers (Heidelberg)

09:15-09:20 *Discussion*

09:20-09:40 The bone marrow microenvironment in myeloproliferative neoplasms Rebekka Schneider (Rotterdam)

09:40-09:45 *Discussion*

09:45-09:55 *Brief Oral Communication*

09:55-10:00 *Discussion*

10:00-10:10 *Brief Oral Communication*

10:10-10:15 *Discussion*

10:15-10:35 Coffee Break

SESSION IV INFLAMMATION AND CELL CYCLE PART 2

Chairs: Shahin Rafii and Michael Hallek

10:35-10:55 Regulation of dormant haematopoietic stem cells Nina Cabezas-Wallscheid (Freiburg)

10:55-11:00 *Discussion*

11:00-11:20 Molecular regulation of quiescent exit of human haematopoietic stem cells Elisa Laurenti (Cambridge, UK)

11:20-11:25 *Discussion*

11:25-11:35 *Brief Oral Communication*

11:35-11:40 *Discussion*

11:40-11:50	<i>Brief Oral Communication</i>
11:50-11:55	<i>Discussion</i>
11:55-12:25	Panel discussion
12:25-14:35	Lunch

SATELLITE LECTURES:

13:00-13:30	CITESeq - Simultaneous Proteomics & Transcriptomics: TotalSeq™ and The Future of Single Cell Analysis - Miguel Tam <i>This educational lecture is organized and funded by BioLegend</i>
13:30-14:00	Title TBA <i>This educational lecture is organized and funded by 10x Genomics</i>
14:00-14:30	Advancing Breakthroughs in Immunotherapy Research with Mass Cytometry and Imaging Mass Cytometry™ <i>This educational lecture is organized and funded by Fluidigm</i>

SESSION V INTERACTION OF TUMOUR CELLS WITH THEIR MICROENVIRONMENT

Chairs: Dominique Bonnet and Ingo Ringshausen

14:35-14:55	Mapping the bone marrow micro environment in acute leukaemia	Iannis Aifantis (New York)
14:55-15:00	<i>Discussion</i>	
15:00-15:20	Targeting the micro environment in smouldering myeloma	Irene Ghobrial (Boston)
15:20-15:25	<i>Discussion</i>	
15:25-15:45	Investigating mechanisms regulating myeloma growth and dissemination using in vivo BM imaging	David Fooksman (New York)
15:45-15:50	<i>Discussion</i>	
15:50-16:00	<i>Brief Oral Communication</i>	
16:00-16:05	<i>Discussion</i>	
16:05-16:15	<i>Brief Oral Communication</i>	
16:15-16:20	<i>Discussion</i>	
16:20-16:50	Coffee break	

SESSION VI THE TUMOUR MICROENVIRONMENT IN CLL, PLASMA CELL MYELOMA, MDS

Chairs: John Gribben and Irene Ghobrial

16:50-17:10	Understanding and targeting tumour-microenvironment interactions in B cell malignancies	Ingo Ringshausen (Cambridge, UK)
17:10-17:15	<i>Discussion</i>	
17:15-17:35	CLL	Michael Hallek (Cologne)
17:35-17:40	<i>Discussion</i>	

17:40-18:00	Pre-clinical modelling of myelodysplastic syndromes (MDS) in murine xenograft models	Daniel Nowak (Mannheim)
18:00-18:05	<i>Discussion</i>	
18:05-18:15	<i>Brief Oral Communication</i>	
18:15-18:20	<i>Discussion</i>	
18:20-18:30	<i>Brief Oral Communication</i>	
18:30-18:35	<i>Discussion</i>	
18:35-19:05	<i>Panel discussion</i>	

Tuesday, February 26, 2019

08:00-09:00 Meet The Experts Sessions

- Clinical implications of the bone marrow microenvironment in haematological malignancies John Gribben (London), Amnon Peled (Jerusalem)
- Metabolism and inflammation in the bone marrow microenvironment Nina Cabezas-Wallscheid (Freiburg), Marieke Essers (Heidelberg)
- Dissecting niche dependencies during leukaemogenesis Iannis Aifantis (New York), Dominique Bonnet (London)

SESSION VII TARGETING OF THE TUMOUR MICROENVIRONMENT CLINICAL

Chairs: Michael Andreeff and Daniela Krause

09:00-09:20	Targeting the tumour microenvironment in B cell lymphomas	John Gribben (London)
09:20-09:25	<i>Discussion</i>	
09:25-09:45	Engineering T cells to overcome the immunosuppressive tumour microenvironment	Stephen Gottschalk (Memphis)
09:45-09:50	<i>Discussion</i>	
09:50-10:00	<i>Brief Oral Communication</i>	
10:00-10:05	<i>Discussion</i>	
10:05-10:15	<i>Brief Oral Communication</i>	
10:15-10:20	<i>Discussion</i>	
10:20-10:50	<i>Coffee Break</i>	
10:50-11:10	Targeting altered metabolism in leukaemia microenvironment	Marina Konopleva (Houston)
11:10-11:15	<i>Discussion</i>	
11:15-11:35	Interferon in MPN	Jean-Jacques Kiladjian (Paris)
11:35-11:40	<i>Discussion</i>	
11:40-12:00	CXCR4 inhibitors	Amnon Peled (Jerusalem)
12:00-12:05	<i>Discussion</i>	

12:05-12:35 ***Panel discussion***

12:35-13:05 **Keynote Lecture**
Bone metastasis in solid tumours

Xiang H.F. Zhang (Houston)

13:05-13:10 ***Discussion***

13:20 ***Meeting Closure***